

AMENDMENTS TO THE CLAIMS

Please make the following amendments to the claims:

1-51. (Cancelled)

52-55. (Cancelled)

56-62. (Cancelled)

63-74. (Cancelled)

75. (Previously Presented) A method for reducing transmission errors in a data communications equipment having a current transmission rate, the method comprising the steps of:

detecting a transient;

responsive to the detecting, collecting data describing one or more subsequent transients that occur over a first predetermined length of time;

determining, based on the collected data, a second time for rate adjustment; and

at the second time, reducing the current transmission rate from a first rate.

76. (Previously Presented) The method claim 75, wherein the data comprises at least one of transient timing, transient duration, and transient rate.

77. (Currently Amended) The method of claim 75, wherein the determining step bases the second time on ~~at least one of cadence interval variability, a maximum duration of transmission of a pending message, a maximum duration for receiving a longest response message, and a duration of transmission of a rate reduction command.~~

78. (Previously Presented) The method of claim 75, further comprising the step of:
responsive to the detecting, reducing the current transmission rate from a second rate;

79. (Previously Presented) The method of claim 78, further comprising the step of:
after the collecting step, restoring the current transmission rate to the second rate.

80. (Previously Presented) The method of claim 75, further comprising the step of:
determining if the collected data is sufficient to calculate the second time for rate
adjustment; and
repeating the collecting step if the collected data is not sufficient.

81. (Previously Presented) The method of claim 75, further comprising the step of:
at a third time, restoring the current transmission rate to the first rate, the third time based
on an expected time of a next transient occurrence.

82. (Previously Presented) A computer readable medium having a program for
reducing transmission errors in a data communications equipment having a current transmission
rate, the program comprising logic for performing the steps of:

detecting a transient;
responsive to the detecting, collecting data describing one or more subsequent transients
that occur over a first predetermined length of time;
determining, based on the collected data, a second time for rate adjustment; and
at the second time, reducing ~~or suspending~~ the transmission rate or suspending
transmission.

83. (Previously Presented) The method of claim 82, wherein the data comprises at least one of transient timing, transient duration, and transient rate.

84. (Currently Amended) The method of claim 82, wherein the determining step bases the second time on ~~at least one of cadence interval variability, a maximum duration of transmission of a pending message, a maximum duration for receiving a longest response message, and a duration of transmission of a rate reduction command.~~

85. (Previously Presented) The method of claim 82, further comprising the step of: responsive to the detecting, reducing the transmission rate from a second rate;

86. (Previously Presented) The method of claim 85, further comprising the step of: after the collecting step, restoring the transmission rate to the second rate.

87. (Previously Presented) The method of claim 82, further comprising the step of: determining if the collected data is sufficient to calculate the second time for rate adjustment; and
repeating the collecting step if the collected data is not sufficient.

88. (Previously Presented) The method of claim 82, further comprising the step of: at a third time, restoring the transmission rate to the first rate, the third time based on an expected time of a next transient occurrence.

89-93. (Cancelled)

94. (Previously Presented) A method for reducing transmission errors in a data communications equipment having a current transmission rate, the method comprising the steps of:

detecting a transient;
collecting data, responsive to the detecting, said data characterizing one or more subsequent transients that occur during a predetermined period;
determining, based on the collected data, a rate adjustment time; and
adjusting, at the rate adjustment time, the current transmission rate of the data communications equipment.

95. (Previously Presented) The method of claim 94, wherein the collected data comprises at least one of transient timing, transient duration, and transient rate.

96. (Previously Presented) The method of claim 94, further comprising the steps of:
determining, based on the collected data, an expected occurrence time of a subsequent transient start; and

reducing, at the expected occurrence time of the subsequent transient start, the current transmission rate of the data communications equipment.

97. (Currently Amended) The system of claim 96, wherein the determining step bases the expected occurrence time on ~~at least one of~~ cadence interval variability, ~~a maximum duration for transmission of a pending message, a maximum duration for receiving a longest response message, and a duration of transmission of a rate reduction command.~~

98. (Previously Presented) The method of claim 94, further comprising the steps of:

determining, based on the collected data, an expected occurrence time of a subsequent transient end; and

restoring, at the expected occurrence time of the subsequent transient end, the current transmission rate of the data communications equipment.

99. (Currently Amended) The system of claim 98, wherein the determining step bases the expected occurrence time on ~~at least one of cadence interval variability, a maximum duration for transmission of a pending message, a maximum duration for receiving a longest response message, and a duration of transmission of a rate reduction command.~~

100. (New) The method of claim 75, wherein the determining step bases the second time on at least one of a maximum duration of transmission of a pending message, a maximum duration for receiving a longest response message, and a duration of transmission of a rate reduction command.

101. (New) The method of claim 82, wherein the determining step bases the second time on at least one of a maximum duration of transmission of a pending message, a maximum duration for receiving a longest response message, and a duration of transmission of a rate reduction command.

102. (New) The system of claim 96, wherein the determining step bases the expected occurrence time on at least one of a maximum duration for transmission of a pending message, a maximum duration for receiving a longest response message, and a duration of transmission of a rate reduction command.

103. (New) The system of claim 98, wherein the determining step bases the expected occurrence time on at least one of a maximum duration for transmission of a pending message, a maximum duration for receiving a longest response message, and a duration of transmission of a rate reduction command.